

WHAT IS CLAIMED IS:

1. An antenna device comprising:

an antenna;

a first rotation shaft for enabling angular displacements of the
5 antenna in the first direction; and

a second rotation shaft for enabling angular displacements of the
antenna in the second direction independent from the angular displacements
of the antenna in the first direction.

2. The antenna device of claim 1, wherein further comprising:

10 a platform for supporting the antenna;

an internal frame connected to the platform through the first rotation
shaft;

an external frame connected to the platform through the second
rotation shaft;

15 a ground plane formed on a surface opposite to a surface on which
the antenna of the platform is formed;

a first conductive line connected to the antenna; and

a second conductive line connected to the ground plane.

20 3. The antenna device of claim 2, further comprising a driver for
mechanically displacing the platform and the internal frame using
electromagnetic force.

4. A method for manufacturing an antenna device comprising:

- attaching a silicon substrate to a glass substrate;
- processing the glass substrate to form a displacement space;
- forming a ground plane on the silicon substrate;
- forming a dielectric layer on the ground plane;
- 5 forming an antenna on the dielectric layer;
- patterning the dielectric layer to form a platform, an internal frame,
an external frame and a hinge; and
- patterning the silicon substrate to separate it into a platform unit, an
internal frame unit and an external frame unit.

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